

**METHOD FOR ADAPTING AN ACTUATION DISTANCE MODEL FOR AN EXHAUST  
TURBOCHARGER**

Abstract

5 Parameters of an actuation distance model are adapted for an  
exhaust turbocharger actuator. For this, in the stationary or  
quasi-stationary operating state of the internal combustion  
engine, a first actuator is activated in the exhaust tract.  
The parameters of the actuation distance model are adapted on  
10 the basis of a comparison of the actual and target values for  
a modified state variable at the turbine. The change brought  
about by activation of the first actuator is compensated by  
activation of a second actuator in the fresh air tract.